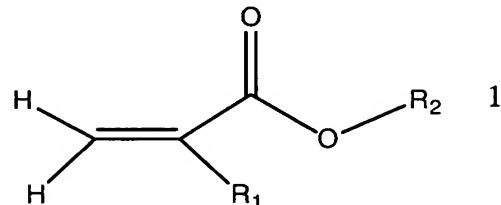


**WHAT IS CLAIMED IS:**

1                   1. A photocurable silver composition comprising:  
2                   an aliphatic acrylated urethane oligomer;  
3                   an acrylated epoxy oligomer; and  
4                   an acrylate monomer selected from the group consisting of  
5                   non-bridged cyclic acrylate monomers, non-cyclic acrylate monomers, and mixtures  
6                   thereof;  
7                   a photoinitiator;  
8                   silver powder; and  
9                   silver flakes in an amount of at least 20% relative to the weight  
10                  of the silver powder.

1                   2. The silver composition of claim 1 wherein the acrylate  
2                  monomer is described by formula 1:



4                   wherein R<sub>1</sub> is hydrogen or substituted or unsubstituted alkyl; and R<sub>2</sub> is non-cyclic  
5                  functional group or a non-bridged cyclic group.

1                   3. The silver composition of claim 2 wherein the acrylated  
2                  monomer is a non-cyclic monomer and R<sub>2</sub> is a substituted or unsubstituted alkyl  
3                  having more than 4 carbon atoms.

1                   4. The silver composition of claim 2 wherein the acrylated  
2                  monomer is a non-bridged cyclic acrylate monomer and R<sub>2</sub> is cycloalkyl,  
3                  cycloalkenyl, or substituted or unsubstituted aryl..

1                   5. The silver composition of claim 2 wherein R<sub>1</sub> is hydrogen or  
2                  methyl.

1                   6. The silver composition of claim 2 wherein R<sub>2</sub> is phenyl,  
2   benzyl, dicylcopentenyl, dicyclopentenyl oxyethyl, cyclohexyl, or naphthyl.

1                   7. The silver composition of claim 1, wherein the aliphatic  
2   acrylated urethane oligomer is present in an amount of about 3% to 8% of the silver  
3   composition.

1                   8. The silver composition of claim 1, wherein  
2                   the acrylated epoxy oligomer is present in an amount of about 2% to  
3   4% of the silver composition;  
4                   the silver powder is present in an amount of about 50% to 60% of the  
5   silver composition;  
6                   the silver flakes are present in an amount of about 25% to 35% of the  
7   silver composition;  
8                   the aliphatic acrylated urethane oligomer is present in an amount of  
9   about 8% of the silver composition; and  
10                  the photoinitiator is present in an amount of about 3% to 6% of the  
11   silver composition.

1                   9. The silver composition of claim 1 further comprising a  
2   component selected from the group consisting of a flow promoting agent, an  
3   adhesion promoter, a wetting agent, a conductive carbon black powder, an antimony  
4   tin oxide powder, and mixtures thereof.

1                   10. The silver composition of claim 1 further comprising an  
2   antimony tin oxide powder and a flow promoting agent.

1                   11. The silver composition of claim 10 further comprising a blend  
2   of a polyacrylic oligomer and an acrylate monomer.

1                   12. The silver composition of claim 1 further comprising an  
2 isobornyl acrylate monomer.

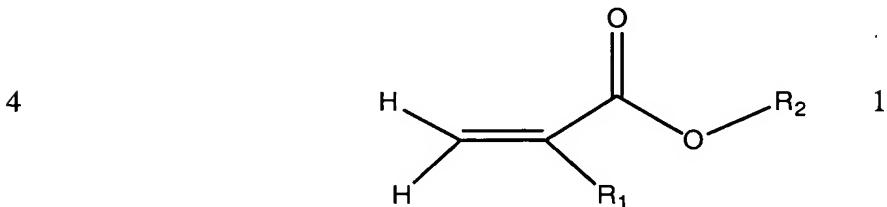
1                   13. A photocurable silver composition comprising:  
2                   an aliphatic acrylated urethane oligomer;  
3                   an acrylated epoxy oligomer;  
4                   a photoinitiator;  
5                   silver powder; and  
6                   silver flakes in an amount of at least 20% relative to the weight of the  
7 silver powder.

1                   14. The silver composition of claim 13 further comprising an  
2 isobornyl acrylate monomer.

1                   15. The silver composition of claim 13 further comprising a  
2 component selected from the group consisting of non-bridged cyclic acrylate  
3 monomers, non-cyclic acrylate monomers, and mixtures thereof.

1                   16. The silver composition of claim 15 further comprising an  
2 isobornyl acrylate monomer.

1                   17. The silver composition of claim 15 wherein the nonbridged  
2 cyclic acrylate monomers and the non-cyclic acrylate monomers are described by  
3 formula 1:



5                   wherein R<sub>1</sub> is hydrogen or substituted or unsubstituted alkyl; and R<sub>2</sub> is non-cyclic  
6 functional group or a non-bridged cyclic group.

1                   18. The silver composition of claim 17 wherein the acrylated  
2 monomer is a non-cyclic monomer and R<sub>2</sub> is a substituted or unsubstituted alkyl  
3 having more than 4 carbon atoms.

1                   19. The silver composition of claim 17 wherein the acrylated  
2 monomer is a non-bridged cyclic acrylate monomer and R<sub>2</sub> is cycloalkyl,  
3 cycloalkenyl, or substituted or unsubstituted aryl.

1                   20. A photocurable silver composition comprising:  
2                   a photocurable organic mixture;  
3                   a photoinitiator;  
4                   silver powder; and  
5                   silver flakes in an amount of at least 20% relative to the weight of the  
6 silver powder and wherein the silver powder comprises a plurality of particles with  
7 about 70% to 95% of the particles having a particle size less than about 14.9  
8 microns.

1                   21. The silver composition of claim 23, wherein the silver powder  
2 comprises a plurality of particles with about 90% of the particles having a particle  
3 size less than about 14.9 microns.